

In the Claims

Please add the following claims:

14. (New) A transmitter capable of interference averaging in a multicarrier system, comprising:

AI means for assigning a plurality of data symbols to a plurality of subcarriers for transmission during a first symbol period;

means for assigning the data symbols to a second plurality of subcarriers for transmission during a second symbol period; and

means for reducing the transmit power corresponding to the first and second symbol periods.

CONT 15. (New) The transmitter of claim 14, wherein at least one of the data symbols is assigned to a different subcarrier during the first and second symbol periods.

16. (New) The transmitter of claim 14, wherein the first and second plurality of subcarriers have at least one subcarrier in common.

17. (New) A method of interference averaging, comprising:

assigning a plurality of data symbols to a first subset of a plurality of subcarriers for transmission during a first symbol period;

assigning the data symbols to a second subset of the subcarriers for transmission during a second symbol period; and

reducing the transmit power corresponding to the first and second symbol periods.

18. (New) The method of claim 17 wherein at least one of the data symbols is assigned to a different subcarrier during the first and second symbol periods.

19. (New) The method of claim 17 wherein the first and second subset have at least one subcarrier in common.

20. (New) The method of claim 17 wherein the first subset includes all of the plurality of subcarriers.

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21. (New) The method of claim 17, wherein the first and second symbol periods are non-adjacent symbol periods.

CONT
22. (New) The method of claim 17, further comprising:
rotating the phase of at least one of the data symbols for at least one of the first and second symbol periods by a predetermined value.

23. (New) The method of claim 17, further comprising:
assigning the data symbols according to a predetermined cell repetition mapping.

24. (New) The method of claim 17, further comprising:
offsetting at least one of the symbol periods by a predetermined amount of time.

25. (New) The method of claim 17, further comprising:
offsetting the subcarriers by a predetermined frequency.

26. (New) A multicarrier communication system, comprising:
means for assigning a plurality of data symbols to a first subset of a plurality of subcarriers for transmission during a first symbol period;
means for assigning the data symbols to a second subset of the subcarriers for transmission during a second symbol period; and

means for reducing the transmit power corresponding to the first and second symbol periods.

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CONT 27. (New) A method for interference averaging, comprising:
providing a first data symbol having a first transmit power;
providing a second data symbol having a second transmit power;
transmitting the first and second data symbols during the same symbol period; and
transmitting the first and second data symbols on different subcarriers.

28. (New) A method of reducing co-channel interference, comprising
determining whether transmitting data with a predetermined modulation/coding rate would leave one or more symbol periods unused in a frame;

selecting a reduced coding/modulation rate based on a number of unused symbol periods;

transmitting data with reduced modulation/coding rate such that a number of unused symbol periods is reduced; and

reducing the transmit power of the data symbols with the reduced modulation/coding rate.

Respectfully Submitted,
BAUM

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